Ultra Enterprise

Workgroup, Departmental & Data Center Servers

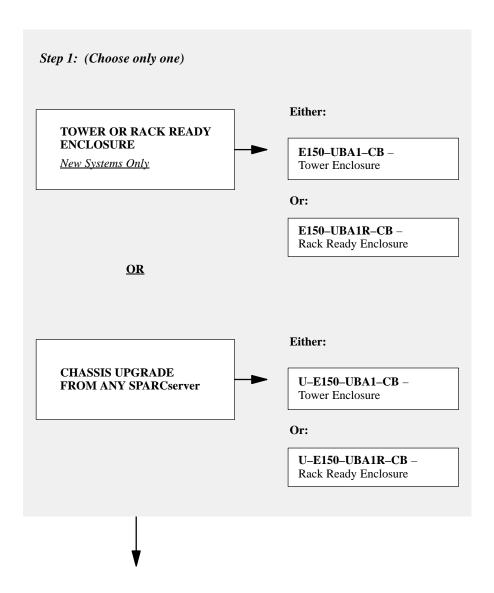
♦	Ultra Enterprise 150 Server	Page 63
♦	Ultra Enterprise 3000 and 4000 Servers	Page 67
♦	Ultra Enterprise 5000 and 6000 Servers	Page 76
♦	Ultra Enterprise 10000 Server	Page 85
♦	Ultra Enterprise Cluster HA Servers	Page 94
♦	Ultra Enterprise Cluster PDB Servers	Page 96
•	Server Option Compatibility and Pricing	Page 98

Ultra Enterprise 150 Server

Product Specifications	Ultra Enterprise 150
Packaging	Tower
CPU	UltraSPARC-I
Number of CPUs	1
Clock Speed	167 MHz
On-Chip Cache	32KB (16KB I–cache + 16KB D–cache)
External Cache	512KB
Main Memory	32MB – 1GB
Maximum Internal Disk	25.2GB Hot Plug
Maximum External Disk	324GB: Up to 4 SPARCstorage Array Model 112 or 1 SPARCstorage Array Model 210
I/O Slots	2 SBus
Ethernet	Fast Wide Ethernet, twisted pair standard (10– and 100–BaseT)
Solaris License	Solaris 2.5.1 or later
Performance	
SPECint95	6.34
SPECfp95	9.33
SPECrate_int95	57
SPECrate_fp95	84
AIM3	1,450
Laddis	2,102
Est. TPM	1,332

Ultra Enterprise 150 Server - Ordering Flow Chart - New Systems

This is a sample ordering guide for the Ultra Enterprise 150 server. Each step outlined by a large box in the guide represents a line item on a server sales order. A minimum legal configuration can be created by choosing steps 1 and 2 of the order process. Larger configurations can be created by choosing multiple options.

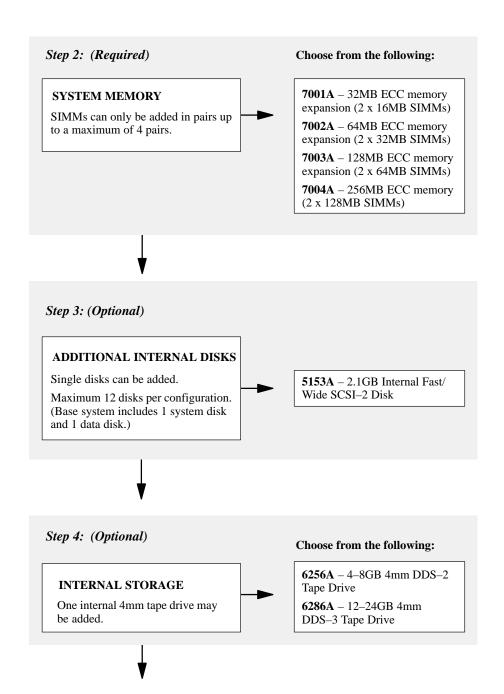


SERVER BASE PACKAGES:

Part Number	Description	List Price	Discount Category
E150–UBA1– CB	Enterprise 150 Tower System with 167MHz Ultra-SPARC–I processor, 512KB UltraCache, no memory, 2.1GB storage drive, Solaris Server license (which includes a license to run Solstice DiskSuite, providing support for Raid 0,1,5, Solstice AdminSuite, Solstice Backup), internal 3.25" floppy disk, SunCD 4, and Sunswift Card providing Fast Wide SCSI and 100 BaseT.	\$13,045	A
E150-UBA1R- CB	Enterprise 150 Rack Ready System with 167MHz UltraSPARC–I processor, 512KB UltraCache, no memory, 2.1GB storage drive, Solaris Server license (which includes a license to run Solstice DiskSuite, providing support for Raid 0,1,5, Solstice AdminSuite, Solstice Backup), internal 3.25" floppy disk, SunCD 4, and Sunswift Card providing Fast Wide SCSI and 100 BaseT.	\$13,045	A

SERVER UPGRADE PACKAGES:

Part Number	Description	List Price	Discount Category
U-E150- UBA1-CB	Chassis upgrade from any SPARCserver to Sun Enterprise 150 Tower System with one 167MHz UltraSPARC–I processor, no memory, 2.1GB internal system drive, 2.1GB internal storage drive, SunCD4 internal CD–ROM, 1.44MB internal floppy drive.	\$12,045	A
U–E150– UBA1R–CB	Chassis upgrade from any SPARCserver to Sun Enterprise 150 Rack System with one 167MHz UltraSPARC–I processor, no memory, 2.1GB internal system drive, 2.1GB internal storage drive, SunCD4 internal CD–ROM, 1.44MB internal floppy drive.	\$12,045	A



SYSTEM MEMORY:

Part Number	Description	List Price	Discount Category
7001A	32MB ECC memory expansion (2 x 16MB SIMMs)	\$800	A*
7002A	64MB ECC memory expansion (2 x 32MB SIMMs)	\$1,400	A*
7003A	128MB ECC memory expansion (2 x 64MB SIMMs)	\$2,700	A*
7004A	256MB ECC memory expansion (2 x 128MB SIMMs)	\$12,000	A*

ADDITIONAL INTERNAL DISKS:

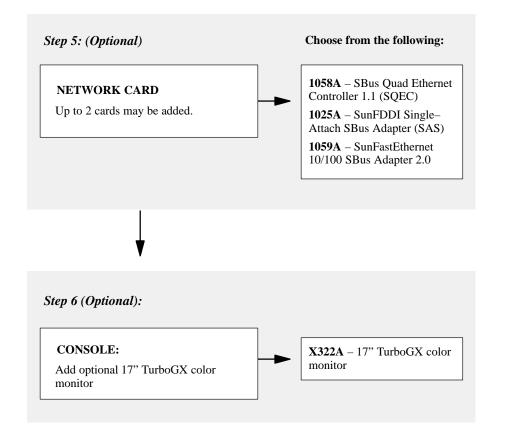
Part	Description	List	Discount
Number		Price	Category
5153A	2.1GB Internal Hot Plug Disk Drive, 7200 RPM, 1" high.	\$1,050	A*

INTERNAL STORAGE:

Part Number	Description	List Price	Discount Category
6256A	4–8GB 4mm DDS–2 Internal Tape Drive	\$1,250	A
6286A	12–24GB 4mm DDS–3 Internal Tape Drive	\$2,400	A

^{*} Maximum discount may apply.

Ultra Enterprise 150 Server - Ordering Flow Chart - New Systems (continued):



NETWORK CARD:

Part Number	Description	List Price	Discount Category
1058A	SBus Quad Ethernet Controller 1.1 (SQEC)	\$995	A
1025A	SunFDDI Single-Attach SBus Adapter 5.0 (SAS)	\$2,500	A
1059A	SunFastEthernet 10/100 SBus Adapter 2.0	\$795	A

CONSOLE:

Part Number			Discount Category
X322A	17" color monitor, TurboGX frame buffer, and cable.	\$2,950	A

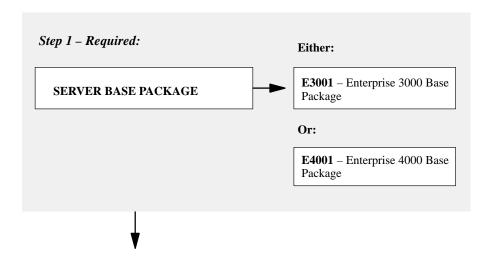
Ultra Enterprise 3000 and 4000 Servers

Product Specifications	Ultra Ente	rprise 3000	Ultra Ente	erprise 4000
Packaging	To	wer	Tab	letop
System Board Slots	4	4		8
CPU	UltraS	SPARC	Ultras	SPARC
Number of CPUs	1-	-6	1-	-14
Clock Speed	167 MHz o	or 250 MHz	167 MHz or 250 MHz	
Cache per processor		uction, 16KB on–chip MB external	Primary: 20KB instruction, 16KB on-chip Secondary: 1 MB external	
System Memory	64MB	– 6GB	64MB – 14GB	
I/O Boards	1-	1–3 1–7		– 7
SBus Slots	2–9 (64–bi	it, 25 MHz)	2–21 (64–bit, 25 MHz)	
Maximum Internal Disk	42GB with 10	internal drives	16.8GB with	fan disk boards
Maximum Disk Storage	> 2 Up to 20 SPARCstorage Ar Up to 18 Data Cente	ray Model 100 or 200 series	> 4TB: Up to 40 SPARCstorage Array Model 100 or 200 series Up to 42 Data Center trays in 6 cabinets	
RAS Features	Hot swap power, i Redundant pow	ver and cooling, overy (ASR), SyMON, Control,	Hot plug disks, Hot plug boards, Hot swap power, Hot swap cooling, Redundant power and cooling, Automatic System Recovery (ASR), SyMON, Remote Control, ECC protected data paths, ECC memory	
Solaris License	Solaris 2.5.1 or later		Solaris 2.5.1 or later	
Performance	1 CPU	6 CPU	6 CPU	12 CPU
SPECint_rate95 SPECfp_rate95 Estimated TPM NFSops/sec. @ msec/op	84 104 1,850 N/A	505 584 9,400 8,368 @ 20.6	505 584 9,400 9,673 @ 15.1	1,007 1,073 15,500 15,247 @ 27.9

Ultra Enterprise 3000 and 4000 Servers - Ordering Flow Chart - New Systems

This is a sample ordering guide for the Ultra Enterprise 3000 and 4000 servers. Each step outlined by a large box in the guide represents a line item on a server sales order. A minimum legal configuration can be created by choosing one option at each step of the order process marked "**Required**". Larger configurations can be created by choosing multiple options.

Upgrade part numbers appear after this ordering flow chart.



SERVER BASE PACKAGES:

Part Number	Description	List Price	Discount Category
E3001	Enterprise 3000 Server Base Package. Includes Tower Enclosure, 4–slot card cage, one SunCD 4, one Power/Cooling Module, and Solaris Server License.	\$11,000	A
E4001	Enterprise 4000 Server Base Package. Includes Stand–Alone Enclosure, 8–slot card cage, one SunCD 4, two Power/Cooling Modoles, and Solaris Server License.	\$42,000	A

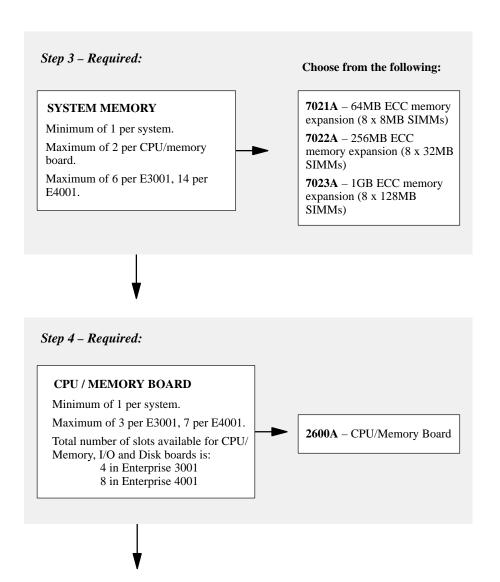
Step 2 – Required: UltraSPARC MODULE Minimum of 1 per system. Maximum of 2 per CPU/memory board Maximum of 6 per E3001, 14 per E4001. Mixing of 167–MHz and 250–MHz modules in a single system is not supported. Either: 2510A – 167 MHz, 1MB External Cache Or: 2530A – 250 MHz, 1MB External Cache

UltraSPARC MODULE:

Part Number	Description	List Price	Discount Category
2510A	UltraSPARC module, 167 MHz, 1MB External Cache.	\$12,000	A
2530A	UltraSPARC module, 250 MHz, 1MB External Cache.	\$16,000	A

NOTE:

The 250–MHz module requires Solaris 2.5.1 or higher. Installing software patch #103640 (version -06 or higher) is strongly recommended.



SYSTEM MEMORY:

	Part Number	Description	List Price	Discount Category
Ī	7021A	64MB ECC memory expansion (8 x 8MB SIMMs)	\$2,500	A*
Ī	7022A	256MB ECC memory expansion (8 x 32MB SIMMs)	\$4,750	A*
Ī	7023A	1GB ECC memory expansion (8 x 128MB SIMMs)	\$48,500	A*

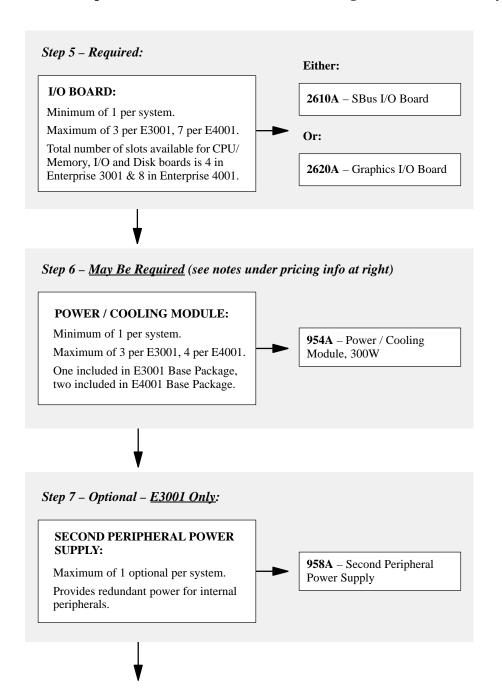
NOTES: • 1 Memory expansion occupies 1 memory bank consisting of 8 SIMMs.

• Mixing memory options is supported as long as all SIMMs in 1 memory bank are the same.

CPU / MEMORY BOARD:

Part	Description	List	Discount
Number		Price	Category
2600A	CPU/Memory Board, two empty CPU slots, two empty memory banks.	\$9,000	A

^{*} Maximum discount may apply.



I/O BOARD:

Part Number	Description	List Price	Discount Category
2610A	SBus I/O Board, three empty SBus slots, two empty 25 MB/sec. Fibre Channel sockets, one Fast/Wide SCSI interface, one 10/100 Mb/sec. Ethernet (Twisted Pair or MII) interface.	\$6,500	A
2620A	Graphics I/O Board, one UPA slot, two empty SBus slots, two empty 25 MB/sec. Fibre Channel sockets, one Fast/Wide SCSI interface, one 10/100 Mb/sec. Ethernet (Twisted Pair or MII) interface.	\$7,000	A

POWER / COOLING MODULE:

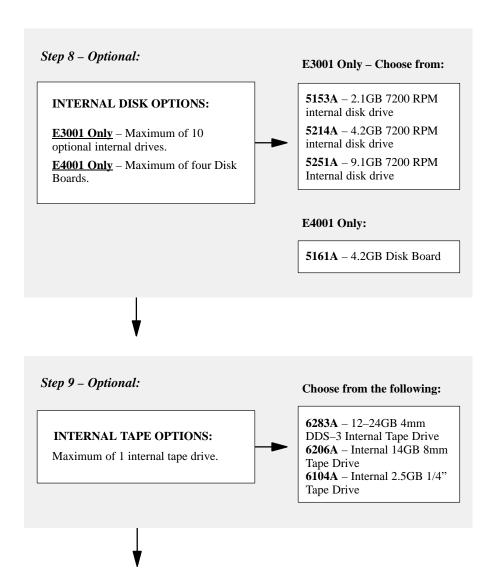
Part Number	Description	List Price	Discount Category
954A	Power/Cooling Module, 300W.	\$1,800	A

NOTES: A minimum of one factory installed power/cooling module is <u>required</u> for:

- every 2 factory-installed system boards (2600A), and/or
 every 2 I/O boards (2610A or 2620A), and/or
 every 2 disk boards (5161A)

SECOND PERIPHERAL POWER SUPPLY:

Part	Description	List	Discount
Number		Price	Category
958A	Second Peripheral Power Supply, 184W, Enterprise 3000 only.	\$1,500	A



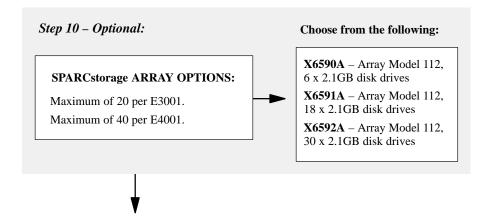
INTERNAL DISK OPTIONS:

Part Number	Description	List Price	Discount Category
	E3000 Internal Disk Options		
5153A	Internal 2.1GB 7200 RPM Fast/Wide SCSI–2 Disk Drive	\$1,050	A*
5214A	Internal 4.2GB 7200 RPM Fast/Wide SCSI–2 Disk Drive	\$1,450	A*
5251A	Internal 9.1GB 7200 RPM Fast/Wide SCSI–2 Disk Drive	\$2,320	A*
	E4000 Internal Disk Options		
5161A	4.2GB Disk Board, 2 x 2.1GB 7200 RPM Fast/Wide SCSI Disk Drives	\$3,800	A*

INTERNAL TAPE OPTIONS:

Part Number	Description	List Price	Discount Category
6283A	12–24GB 4mm DDS–3 Internal Tape Drive	\$2,400	A
6206A	Internal 14GB 8mm Tape Drive	\$2,700	A
6104A	Internal 2.5GB 1/4-inch Tape Drive	\$900	A

^{*} Maximum discount may apply.



Step 11 – Optional:

Libraries.

EXTERNAL TAPE OPTIONS:

Maximum of 4 external tape drives. Maximum of 4 SPARCstorage Libraries, SPARCstorage DLT4700 AutoLoaders, or Enterprise Tape

Choose from the following:

X6223A – 140GB SPARCstorage Library, 1 tape drive, stackable unit.

X6224A – 140GB SPARCstorage Library, full configuration, stackable.

X6225A – 400GB SPARCstorage Library, 1 tape drive, stackable unit.

X6230A – 20–40GB 8mm Tape UniPack

X6052 – 20–40GB SPARCstorage DLT4000 tape drive in external desktop enclosure.

X6071A – 140–280GB SPARCstorage DLT4700 Tape Auto–Loader in external desktop enclosure.

X6072A – 1TB Enterprise Tape Library ETL 4/1000.

SPARCstorage ARRAY OPTIONS:

Part Number	Description	List Price	Discount Category
X6590A	SPARCstorage Array Model 112 with 12.6GB (6 x 2.1GB) 7200 RPM disk drives.	\$21,700	A*
X6591A	SPARCstorage Array Model 112 with 37.8GB (18 x 2.1GB) 7200 RPM disk drives.	\$33,900	A*
X6592A	SPARCstorage Array Model 112 with 63GB (30 x 2.1GB) 7200 RPM disk drives.	\$45,700	A*

EXTERNAL TAPE OPTIONS:

Part Number	Description	List Price	Discount Category
X6223A	140GB SPARCstorage Library, 1 tape drive, stackable unit (50–68 pin SCSI cable).	\$8,800	A
X6224A	140GB SPARCstorage Library, full configuration, stackable unit (50–68 pin SCSI cable).	\$12,800	A
X6225A	400GB SPARCstorage Library, 1 tape drive, stackable unit.	\$27,000	A
X6230A	20–40GB 8mm Tape UniPack with 68–68 pin SCSI cable.	\$7,125	A
X6052A	20–40GB SPARCstorage DLT4000 Tape Drive in external desktop enclosure (50–68 pin SCSI cable).	\$7,100	A
X6071A	140–280GB SPARCstorage DLT4700 Auto–Loader in external desktop enclosure (50–68 pin SCSI cable).	\$16,000	A
X6072A	1TB Enterprise Tape Library ETL 4/1000, floor standing unit.	\$85,000	A

^{*} Maximum discount may apply.

Step 12 – Optional: Choose from the following: **595A** – 25 MB/sec. Fibre **INTERFACES & HOST ADAPTERS:** Channel Optical Module. These options may be required to **1057A** – 25 MB/sec. SBus support configured mass storage and Fibre Channel Host Adapter. tape devices. 1062A - SBus Fast/Wide Differential Intelligent SCSI-2 Host Adapter (DWIS/S). 1063A – SBus Single–Ended Fast/Wide Intelligent SCSI-2 Host Adapter (SWIS/S) X1018A - SunSwift SBus Adapter

INTERFACES & HOST ADAPTERS:

Part Number	Description	List Price	Discount Category
595A	25 MB/sec. Fibre Channel Optical Module	\$600	A
1057A	25 MB/sec. SBus Fibre Channel Host Adapter	\$1,600	A
1062A	SBus Fast/Wide Differential Intelligent SCSI–2 Host Adapter (DWIS/S).	\$1,295	A
1063A	SBus Single–Ended Fast/Wide Intelligent SCSI–2 Host Adapter (SWIS/S)	\$1,195	A
X1018A	SunSwift SBus Adapter	\$1,095	A

Step 13 - Required:

POWER CORD / COUNTRY KIT:

Order one kit at no charge.

Order a Power Cord Kit when server does not include a monitor.

Order a Power Cord Kit for each external peripheral if required.

Order a Type 5 Country Kit when server includes a monitor.

POWER CORD / COUNTRY KIT:

Part Number	Description	List Price	Discount Category
X311L	Localized power cord kit, North American/Asian (server country kit)	N/C	-
X3500A	Type 5 Country Kit, North American, U.S. or Canada only. Order only when purchasing monitors.	N/C	_
X3540A	Type 5 Country Kit, UNIX, North American, U.S. or Canada only. Order only when purchasing monitors.	N/C	-

NOTE: See the official End User Price Book for a complete listing of power cords and country kits.

Upgrades to Enterprise 3000 and Enterprise 4000 Servers:

From	Part Number and Description	List Price	Discount Category
	Enterprise 3000 Upgrades		
Sun 3XO, 4X0, 630MP or 670MP	UG-3/4/6-E3001X Chassis upgrade to Enterprise 3000 including Enclosure, one SunCD 4, one Power/Cooling Module, one CPU/Memory Board, one SBus I/O Board, and Solaris Server License.	\$21,100	A*
Any desktop server	UGDTSERV–E3001X Chassis upgrade to Enterprise 3000 including Enclosure, one SunCD 4, one Power/Cooling Module, one CPU/Memory Board, one SBus I/O Board, and Solaris Server License.	\$22,500	A*
	Enterprise 4000 Upgrades		•
Sun 3XO, 4X0, 630MP or 670MP	UG-3/4/6-E4001X Chassis upgrade to Enterprise 4000 including Enclosure, one SunCD 4, two Power/Cooling Modules, one CPU/Memory Board, one SBus I/O Board, and Solaris Server License.	\$48,000	A*
SPARCserver 1000 or 690MP	UGS1000–E4001X Chassis upgrade to Enterprise 4000 including Enclosure, one SunCD 4, two Power/Cooling Modules, one CPU/Memory Board, one SBus I/O Board, and Solaris Server License.	\$45,000	A*
Enterprise 3000	UGE3000–E4000 Enclosure upgrade to Enterprise 4000 including Stand–alone Enclosure, card cage, peripheral power supply, one PCM, and AC box.	\$33,500	A*

^{*} Maximum discount may apply.

Module, System Board and Clock Board Upgrades for Enterprise 3000 and Enterprise 4000 Servers:

From	Part Number and Description	List Price	Discount Category
	UltraSPARC Module Upgrades		
167 MHz UltraSPARC module with 512KB external cache	UG-M2500-M2510 Module upgrade to 167 MHz UltraSPARC module with 1MB external cache.	\$8,000	A*
Any SuperSPARC module	UG-M2510 Upgrade to 167 MHz UltraSPARC module with 1MB external cache.	\$9,500	A*
Any 167 MHz UltraSPARC module	UG-M2510-M2530 Upgrade to 250 MHz UltraSPARC module with 1MB external cache.	\$12,000	A*
Any non-UltraSPARC module	UG-M2530 Upgrade to 250 MHz UltraSPARC module with 1MB external cache.	\$13,500	A*
	System Board Upgrades to any Enterprise X000 CPU/Memory Board	•	
SPARCserver 1000(E)	UGSB1000–X–64M System Board Upgrade to Enterprise CPU/Memory Board with 64MB memory.	\$10,550	A*
SPARCserver 1000(E)	UGSB1000–X–256M System Board Upgrade to Enterprise CPU/Memory Board with 256MB memory.	\$11,890	A*
SPARCserver 2000(E)	UGSB2000–X–0M System Board Upgrade to Enterprise CPU/Memory Board with no memory.	\$6,650	A*
SPARCserver 2000(E)	UGSB2000–X–256M System Board Upgrade to Enterprise CPU/Memory Board with 256MB memory.	\$11,390	A*
	Clock Board Upgrade (to upgrade existing Enterprise X000 servers to "X0001" level	!)	•
Enterprise X000	UG-ENT-CLOCKBD Enterprise System Clock Board upgrade.	\$1,155	A*

^{*} Maximum discount may apply.

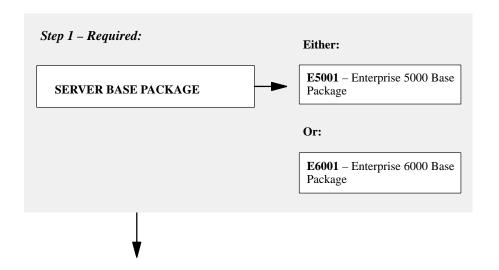
Ultra Enterprise 5000 and 6000 Servers

Product Specifications		erprise 5000 ater Cabinet		Ultra Enterprise 600	U
Packaging	Data Cer	8		Data Center Cabinet	
System Board Slots CPU	I III	SPARC		UltraSPARC	
Number of CPUs		-14		1–30	
		or 250 MHz			
Clock Speed			167 MHz or 250 MHz		
Cache per processor	_	ruction, 16KB on-chip 1 MB external	Primary: 20KB instruction, 16KB on–chip Secondary: 1 MB external		
System Memory	64MB – 14GB			64MB - 30GB	
I/O Boards	1	L - 7		1–15	
SBus Slots	2-21 (64-	bit, 25 MHz)	2–45 (64–bit, 25 MHz)		
Maximum Internal Disk	118GB with 4 SPA	Data Center trays, RCstorage RSM trays, age Array Model 100 series	88GB w	GB witih 3 Data Center ith 3 SPARCstorage R SPARCstorage Array N	SM trays,
Maximum Disk Storage	Up to 40 SPARCstorage A	6TB: rray Model 100 or 200 series ter trays in 6 cabinets	> 10TB: Up to 60 SPARCstorage Array Model 100 or 200 series Up to 90 Data Center trays in 12 cabinets		
RAS Features	Hot swap power. Redundant po Automatic System Re Remote	Hot plug boards, Hot swap cooling, wer and cooling, covery (ASR), SyMON, control, a paths, ECC memory	Hot sw Red Automatic	plug disks, Hot plug bo wap power, Hot swap c lundant power and coo System Recovery (ASI Remote Control, otected data paths, ECC	ooling, ling, R), SyMON,
Solaris License	Solaris 2	.5.1 or later		Solaris 2.5.1 or later	
Performance	1 CPU	12 CPU	12 CPU	24 CPU	30 CPU
SPECint_rate95 SPECfp_rate95 Estimated TPM NFSops/sec. @ msec/op	84 104 1,850 15,247 @ 27.9	1,007 1,073 15,500 15,247 @ 27.9	1,007 1,073 15,500 17,737 @ 23.0	1,942 1,656 22,000 24,477 @ 20.4	2,317 1,782 N/A N/A

Ultra Enterprise 5000 and 6000 Servers - Ordering Flow Chart - New Systems

This is a sample ordering guide for the Ultra Enterprise 5000 and 6000 servers. Each step outlined by a large box in the guide represents a line item on a server sales order. A minimum legal configuration can be created by choosing one option at each step of the order process marked "**Required**". Larger configurations can be created by choosing multiple options.

Upgrade part numbers appear after this ordering flow chart.



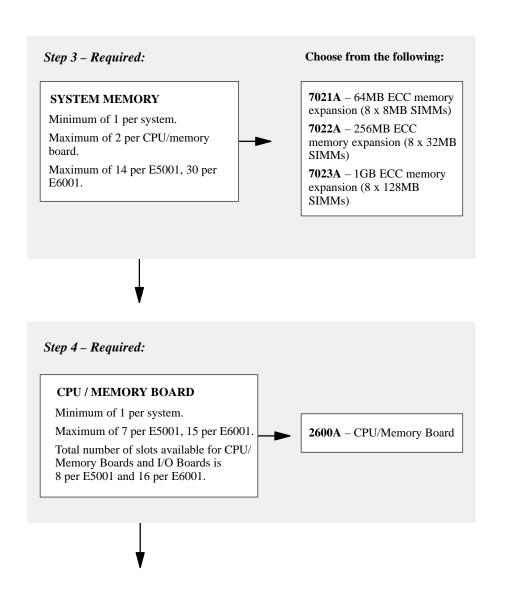
SYSTEM CABINETS – NEW SYSTEMS:

Part Number	Description	List Price	Discount Category
E5001	Enterprise 5000 Server Base Package. Includes Data Center System Cabinet, 8–slot card cage, one SunCD 4, two Power/Cooling Modules, and Solaris Server License.	\$57,000	A
E6001	Enterprise 6000 Server Base Package. Includes Data Center System Cabinet, 16–slot card cage, one SunCD 4, two Power/Cooling Modules, and Solaris Server License.	\$175,000	A

Step 2 – Required: UltraSPARC MODULE Minimum of 1 per system. Maximum of 2 per CPU/memory board Maximum of 14 per E5001, 30 per E6001. Mixing of 167–MHz and 250–MHz modules in a single system is not supported. Either: 2510A – 167 MHz, 1MB External Cache Or: 2530A – 250 MHz, 1MB External Cache

UltraSPARC MODULE:

Part Number	Description	List Price	Discount Category
2510A	UltraSPARC module, 167 MHz, 1MB External Cache.	\$12,000	A
2530A	UltraSPARC module, 250 MHz, 1MB External Cache.	\$16,000	A



SYSTEM MEMORY:

Part Number	Description	List Price	Discount Category
7021A	64MB ECC memory expansion (8 x 8MB SIMMs)	\$2,500	A*
7022A	256MB ECC memory expansion (8 x 32MB SIMMs)	\$4,750	A*
7023A	1GB ECC memory expansion (8 x 128MB SIMMs)	\$48,500	A*

NOTES: • One Memory expansion occupies 1 memory bank consisting of 8 SIMMs.

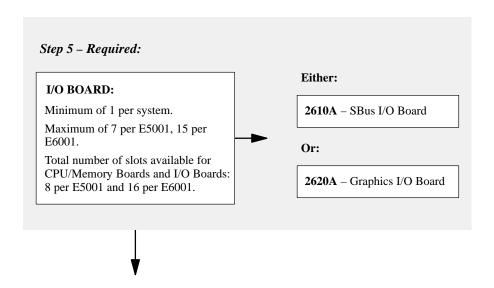
• Mixing memory options is supported as long as all SIMMs in 1 memory bank are the same.

CPU / MEMORY BOARD:

Part	Description	List	Discount
Number		Price	Category
2600A	CPU/Memory Board, two empty CPU slots, two empty memory banks.	\$9,000	A

NOTE: • One CPU/Memory Board supports up to 2 memory expansion options and up to 2 UltraSPARC modules.

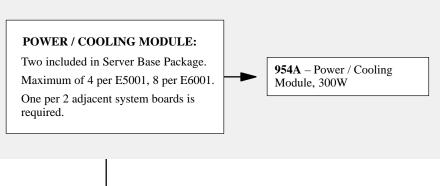
^{*} Maximum discount may apply.



I/O BOARD:

Part Number	Description	List Price	Discount Category
2610A	SBus I/O Board, three empty SBus slots, two empty 25 MB/sec. Fibre Channel sockets, one Fast/Wide SCSI interface, one 10/100 Mb/sec. Ethernet (Twisted Pair or MII) interface.	\$6,500	A
2620A	Graphics I/O Board, one UPA slot, two empty SBus clots, two empty 25 MB/sec. Fibre Channel sockets, one Fast/Wide SCSI interface, one 10/100 Mb/sec. Ethernet (Twisted Pair or MII) interface.	\$7,000	A

Step 6 – Optional:



POWER / COOLING MODULE:

Part	Description	List	Discount
Number		Price	Category
954A	Power/Cooling Module, 300W.	\$1,800	A

Step 7 – Optional: **Choose from the following:** INTERNAL DISK STORAGE 5161A - 4.2GB Disk Board **OPTIONS:** Maximum of 4 Disk Boards in E5001, 2 in E6001. Or: -OR-Maximum of 3 SPARCstorage Array **6590AR4** – Array Model 112, Model 112's in E5001, 2 in E6001. 6 x 2.1GB 7400 RPM drives Array Accessories Kit required. **6591AR4** – Array Model 112, - OR -18 x 2.1GB 7200 RPM drives **6592AR4** – Array Model 112, Maximum of 4 SPARCstorage Array 30 x 2.1GB 7200 RPM drives RSM's in E5001, 3 in E6001. Or: **6503AR4** – 3 x 4.2GB 5400 RPM SPARCstorage RSM Disk Tray **6504AR4** – 7 x 4.2GB 5400 RPM SPARCstorage RSM Disk Tray

INTERNAL DISK STORAGE OPTIONS:

Part Number	Description	List Price	Discount Category
	Disk Board		
5161A	4.2GB Disk Board with 2 x 2.1GB 7200 RPM Fast/ Wide SCSI disk drives.	\$3,800	A*
	SPARCstorage Arrays	•	•
6590AR4	12.6GB SPARCstorage Array Model 112 with 6 x 2.1GB 7200 RPM disk drives.	\$21,700	A*
6591AR4	37.8GB SPARCstorage Array Model 112 with 18 x 2.1GB 7200 RPM disk drives.	\$33,900	A*
6592AR4	63GB SPARCstorage Array Model 112 with 30 x 2.1GB 7200 RPM disk drives.	\$45,700	A*
959A	SPARCstorage Array Accessories Kit for Enterprise System or Expansion Cabinets. NOTE: Must be ordered with factory-installed Array Model 112 in Enterprise System Cabinet or Enterprise Expansion Cabinet.	N/C	_
	SPARCstorage RSM Disk Trays		
6503AR4	SPARCstorage RSM disk tray with 2 x 4.2GB 5400 RPM drives.	\$9,650	A*
6504AR4	SPARCstorage RSM disk tray with 7 x 4.2GB 5400 RPM drives.	\$15,850	A*

^{*} Maximum discount may apply.

Step 8 – Optional:

INTERNAL TAPE OPTIONS:

Maximum of 1 optional Internal Tape Drive.

Maximum of 1 Multi-Tape Backup Tray or SPARCstorage Library.

Additional Expansion Tape Drive Options are available for the Multi– Tape Backup Tray.

Choose from the following:

6283AR4 – 12–24GB 4mm DDS–3 Internal Tape Drive

6206AR4 – Internal 14GB 8mm Tape Drive

6104AR4 – Internal 2.5GB 1/4" Tape Drive

AND one from the following:

6292AR4 – 72–144GB 4mm DDS–3 Auto–Loader with Multi–Tape Backup Tray

6205AR4 – 14GB 8mm Tape Drive with Multi–Tape Backup Tray

6056AR4 – SPARCstorage DLT4000 Tape Drive with Multi–Tape BackupTray

6221AR4 – 140GB SPARC– storage Library, 1 Tape Drive

6222AR4 – 140GB SPARC– storage Library, full configuration

6226AR4 – 400GB SPARC-storage Library Model 8/400.

INTERNAL TAPE OPTIONS:

Part Number	Description	List Price	Discount Category
	Choose from the following:		•
6283A	12–24GB 4mm DDS–3 Internal Tape Drive	\$2,400	A
6206A	Internal 14GB 8mm Tape Drive	\$2,700	A
6104A	Internal 2.5GB 1/4-inch Tape Drive	\$900	A
	<u>AND</u> one from the following:		•
6292AR4	72–144GB 4mm DDS–3 Tape Auto–Loader with Multi–Tape Backup Tray	\$6,000	A
6205AR4	14GB 8mm Expansion Tape Drive with the Multi– Tape Backup Tray (50–68 pin SCSI cable).	\$4,700	A
6056AR4	20–40GB SPARCstorage DLT4000 Expansion Tape Drive with the Multi–Tape Backup Tray (50–68 pin SCSI cable).	\$8,500	A
6221AR4	140GB SPARCstorage Library with one Tape Drive (50–68 pin SCSI cable).	\$8,800	A
6222AR4	140GB SPARCstorage Library, full configuration (50–68 pin SCSI cable).	\$12,800	A
6226AR4	400GB SPARCstorage Library Model 8/400, rack mountable unit, with tape drives.	\$27,000	A

Step 9 – Optional: Either: **595A** – 25MB/sec. Fibre Channel Optical Module **INTERFACES & HOST ADAPTERS:** Or: These options may be required to support configured mass storage and **1057A** – SBus 25MB/sec. tape devices. Fibre Channel Host Adapter Or: **1062A** – SBus Differential Fast/Wide Intelligent SCSI-2 Host Adapter (DWIS/S) Or: 1063A - SBus Fast/Wide Intelligent SCSI-2 Host Adapter (SWIS/S) Or: X1018A - SunSwift SBus Adapter **Step 10: POWER CORD:** Order one kit for every Enterprise System or Expansion cabinet. Maximum of 1 per cabinet.

INTERFACES & HOST ADAPTERS.:

Part Number	Description	List Price	Discount Category
595A	25MB/sec. Fibre Channel Optical Module (FC25/OM)	\$600	A
1057A	25MB/sec. Fibre Channel/SBus Host Adapter, single channel host connection for SPARCstorage Array	\$1,600	A
1062A	SBus Differential Fast/Wide Intelligent SCSI-2 Host Adapter (DWIS/S).	\$1,295	A
1063A	SBus Single–Ended Fast/Wide Intelligent SCSI–2 Host Adapter (SWIS/S) card	\$1,195	A
X1018A	SunSwift SBus Adapter	\$1,095	A

POWER CORD / COUNTRY KIT:

Part Number	Description	List Price	Discount Category
3800A	Power Cord for Enterprise System and Expansion Cabinets, U.S. version (NEMA L6–30P plug).	N/C	-
3848A	Power Cord for Enterprise System and Expansion Cabinets, International version (IEC 309 plug, 32A, 250V).	N/C	-

Upgrades to Enterprise 5000 and Enterprise 6000 Servers:

From	Part Number and Description	List Price	Discount Category
	Enterprise 5000 Upgrades		
SPARCserver 1000, 690MP	UGS1000–E5001X Chassis upgrade to Enterprise 5000 including System Cabinet, one SunCD 4, two Power/Cooling Modules, one CPU/Memory Board, one SBus I/O Board, and Solaris Server License.	\$57,500	A*
SPARCcenter 2000	UGS2000–E5001X Chassis upgrade to Enterprise 5000 including System Cabinet, one SunCD 4, two Power/Cooling Modules, one CPU/Memory Board, one SBus I/O Board, and Solaris Server License.	\$49,500	A*
Enterprise 3000	UGE3000–E5000 Enclosure upgrade to Enterprise 5000 including rack, card cage, AC box, SCSI Interface assembly, and key switch assembly.	\$51,000	A*
	Enterprise 6000 Upgrades		•
SPARCcenter 2000(E)	UGS2000–E6001X Chassis upgrade to Enterprise 5000 including Data Center System Cabinet, one SunCD 4, two Power/Cooling Modules, one CPU/Memory Board, one SBus I/O Board, and Solaris Server License.	\$120,500	A*
Enterprise 4000	UGE4000–E6000 Enclosure upgrade to Enterprise 6000 including rack, card cage, AC box, SCSI Interface assembly, and key switch assembly.	\$145,000	A*
Enterprise 5000	UGE5000–E6000 Enclosure upgrade to Enterprise 6000 including card cage.	\$128,000	A*

^{*} Maximum discount may apply.

Module, System Board and Clock Board Upgrades for Enterprise 5000 and Enterprise 6000 Servers:

From	Part Number and Description	List Price	Discount Category		
UltraSPARC Module Upgrades					
167 MHz UltraSPARC module with 512KB external cache	UG-M2500-M2510 Module upgrade to 167 MHz UltraSPARC module witih 1MB external cache.	\$8,000	A*		
Any SuperSPARC module	UG-M2510 Upgrade to 167 MHz UltraSPARC module with 1MB external cache.	\$9,500	A*		
Any 167 MHz UltraSPARC module	UG-M2510-M2530 Upgrade to 250 MHz UltraSPARC module with 1MB external cache.	\$12,000	A*		
Any non-UltraSPARC module	UG-M2530 Upgrade to 250 MHz UltraSPARC module with 1MB external cache.	\$13,500	A*		
	System Board Upgrades to any Enterprise X000 CPU/Memory Board	•	•		
SPARCserver 1000(E)	UGSB1000–X–64M System Board Upgrade to Enterprise CPU/Memory Board with 64MB memory.	\$10,550	A*		
SPARCserver 1000(E)	UGSB1000-X-256M System Board Upgrade to Enterprise CPU/Memory Board with 256MB memory.	\$11,890	A*		
SPARCserver 2000(E)	UGSB2000–X–0M System Board Upgrade to Enterprise CPU/Memory Board with no memory.	\$6,650	A*		
SPARCserver 2000(E)	UGSB2000–X–256M System Board Upgrade to Enterprise CPU/Memory Board with 256MB memory.	\$11,390	A*		
	Clock Board Upgrade (to upgrade existing Enterprise X000 servers to "X0001" level)	•	•		
Enterprise X000 servers	UG-ENT-CLOCKBD Enterprise X000 Clock Board Upgrade.	\$1,155	A*		

^{*} Maximum discount may apply.